

Lab Assignment & Solution



Cybersecurity Professional Program
Introduction to Python
for Security

Data Types & Conditions

PY-02-LS2
Basic Conditions

Note: Solutions for the instructor are shown inside the green box.

Lab Objective

Learn the basics of conditional operators and how to use them.

Lab Mission

Practice using basic conditional operators in Python.

Lab Duration

10–20 minutes.

Requirements

- Knowledge of user input handling.
- Working knowledge of variables.
- Familiarity with if-else statements.

Resources

- Environment & Tools
 - Windows, MacOS
 - Python 3
 - PyCharm

Textbook References

- Chapter 2: Data Types & Conditions
 - Section 1: Variables and User Output
 - Section 2: Operators and Casting
 - Section 3: Conditions

Lab Task

Create a new script that checks if users can legally purchase an alcoholic beverage. Receive user input for two variables: name and age. Use conditional operators to compare the age variable against the legal age.

1. Create two variables, name, and age, and use the *input()* function to get user input.

```
name = input("What is your name? ")
age = input("What is your age? ")
```

2. Use the *int()* function to cast the variable age from a **String** data type to an **integer** data type.

```
age = int(age)
```

3. Print a greeting containing the user's name and age. Use the format method to insert the variables.

```
print("Hello {}, your age is {}".format(name, age))
```

4. Create an if-else statement to check if the user is old enough to purchase an alcoholic beverage and print an appropriate message.

```
if age >= 21:
    print("You can buy an alcoholic beverage")
else:
    print("You cannot buy an alcoholic beverage")
```